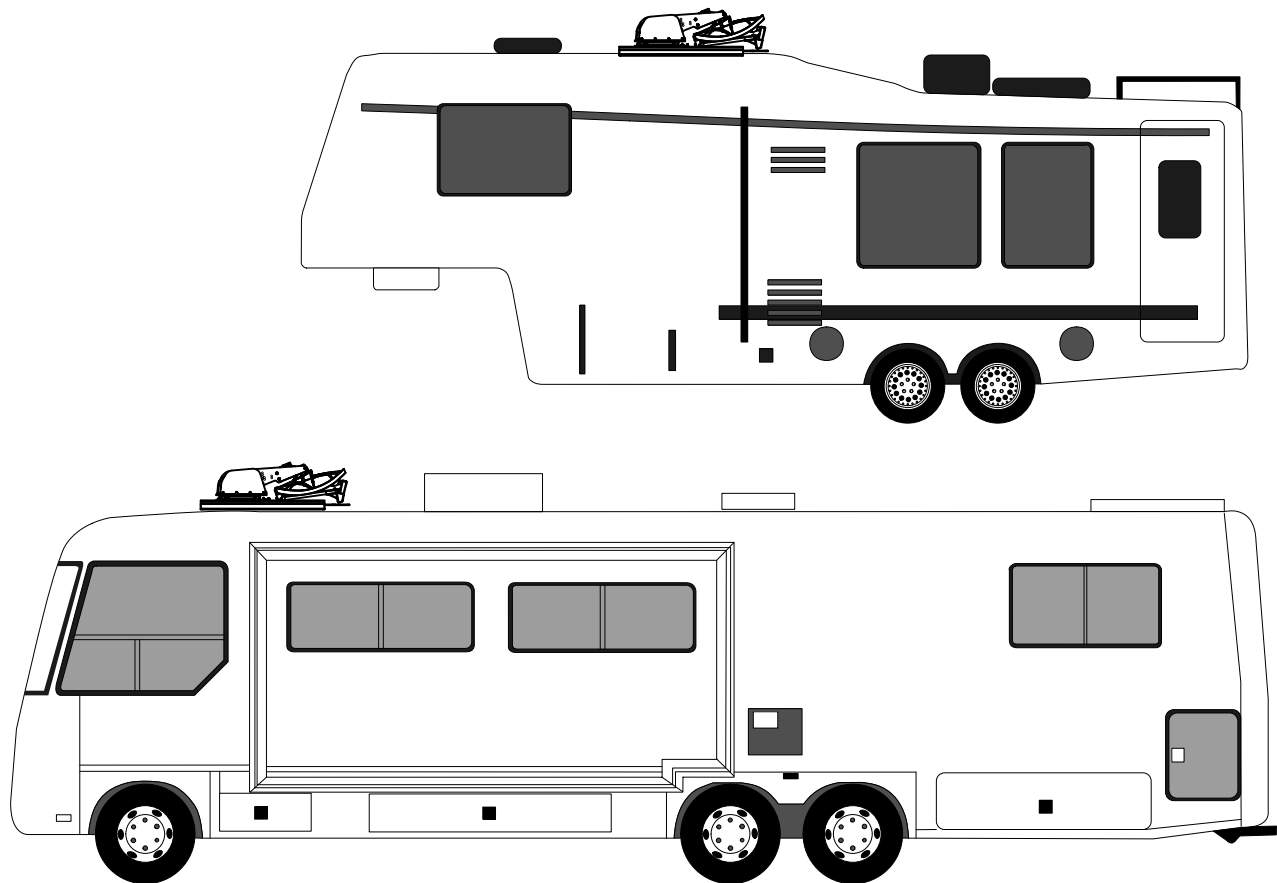




# Installation & Owners Manual

## SD60a / SD75a

## ESSi - SD60a (60 cm elliptical dish for Shaw Direct)

The SD60a Explorer satellite system is a fully automatic, one button, multiple satellite, HDTV ready RV satellite system for Shaw Direct.

ESSi, the first company to introduce an RV satellite system for Shaw Direct, is the only Canadian manufacturer for Shaw Direct mobile solutions. Next time you hit the open road in your favorite RV, don't let Mother Nature dampen your holiday spirit. ESSi and Shaw Direct have a great cure for cabin fever.

### Specifications

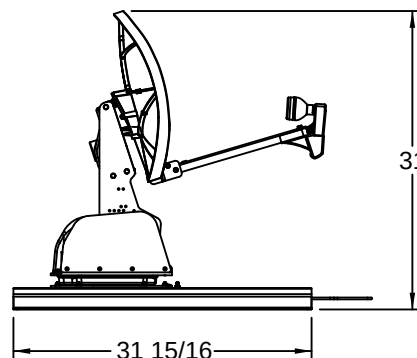
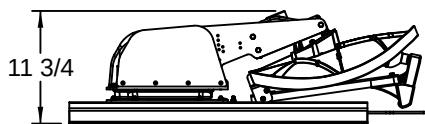
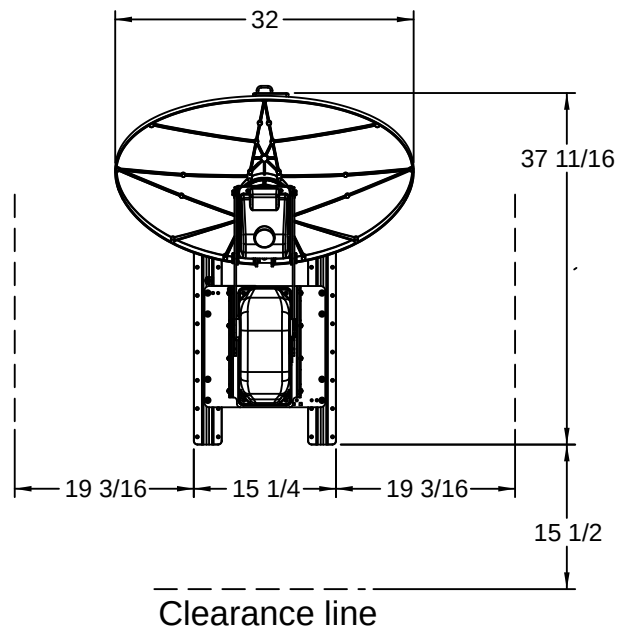
- Compatible with Shaw Direct
- Fully automatic
- Quad LNB
- Integrated GPS antenna
- HDTV ready
- Three (3) axis rotation

### Materials:

- Stainless steel
- Irridited and anodized aluminum
- Injection molded plastic parts
- Powder coat paint finish

Dish size .....: 60 cm  
 System Height (opened) .....: 31"  
 System Height (closed) .....: 11 3/4"  
 Weight .....: 45 lbs.  
 Shipping Weight .....: 57 lbs.

For information on a dealer nearest you, contact:  
 Explorer Satellite Systems Inc.  
 at (514) 227-8425  
[www.explorerss.com](http://www.explorerss.com)



## ESSi - SD75a (75 cm elliptical dish for Shaw Direct)

The SD75a Explorer satellite system is our largest, fully automatic, one button, multiple satellite, HDTV ready RV satellite system for Shaw Direct.

Next time you hit the open road in your favorite RV, don't let Mother Nature dampen your holiday spirit. ESSi and Shaw Direct have a great cure for cabin fever.

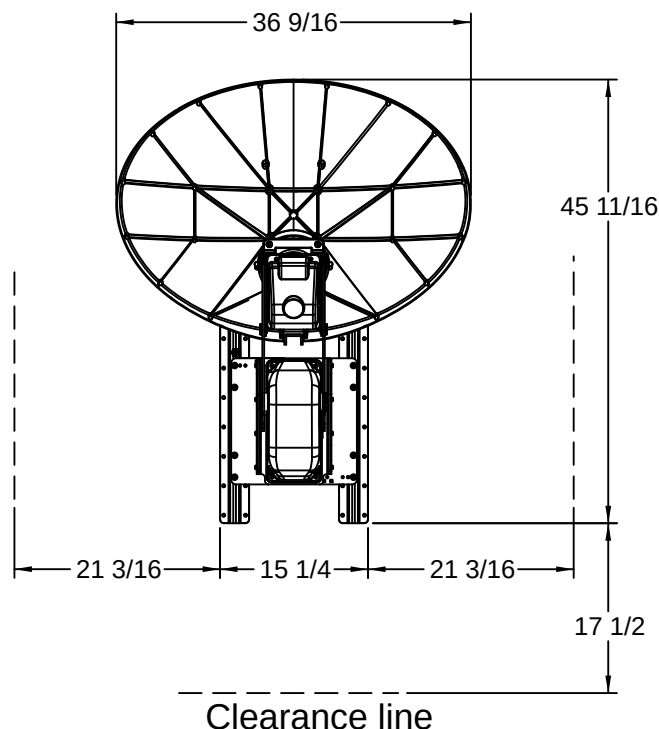
### Specifications

- Compatible with Shaw Direct
- Fully automatic
- Quad LNB
- Integrated GPS antenna
- HDTV ready
- Three (3) axis rotation

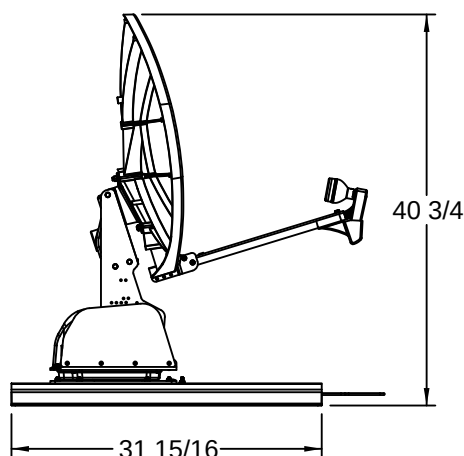
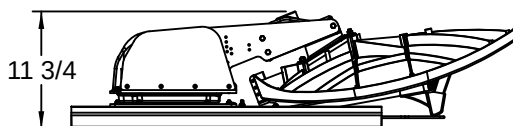
### Materials:

- Stainless steel
- Irridited and anodized aluminum
- Injection molded plastic parts
- Powder coat paint finish

Dish size .....: 75 cm  
 System Height (opened) .....: 40 3/4"  
 System Height (closed) .....: 11 3/4"  
 Weight .....: 51 lbs.  
 Shipping Weight .....: 61 lbs.



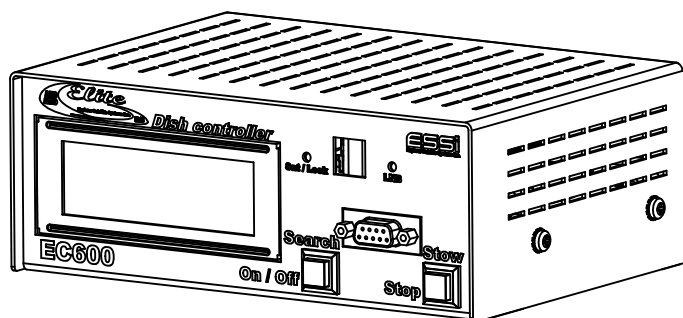
For information on a dealer nearest you, contact:  
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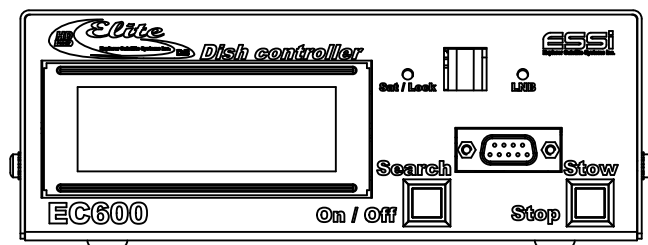
# ***EC600 USER GUIDE***

ESSi's experience and expertise has led to the next level of a truly user-friendly, one-button solution with the new Elite series controllers, introduced in July of 2009. Locating the proper satellites has never been easier. The system locks on to all required satellites simultaneously.

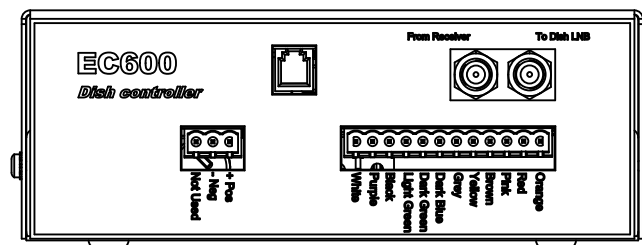
The dish captures the signal, sends it to the receiver then to your TV, providing you with hours of crystal-clear digital high-definition programming from your favourite Service Provider.



The EC600 contains many features in a small package, (7.5W x 2.8H x 5.8D inches). It can be installed in a small cabinet. For your convenience, the EC600 is a one-button search operation and one button stow operation. The EC600 is the only dish controller that displays the parameters like the GPS latitude and longitude, elevation, skew and system azimuth value. All system information is available on the 3.25 inch LCD display.



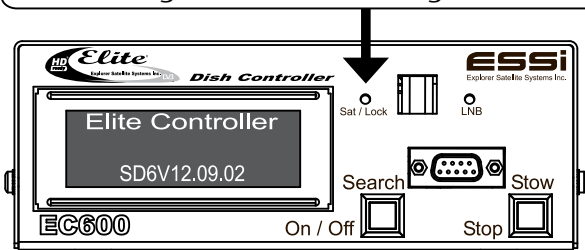
Front View



Rear View

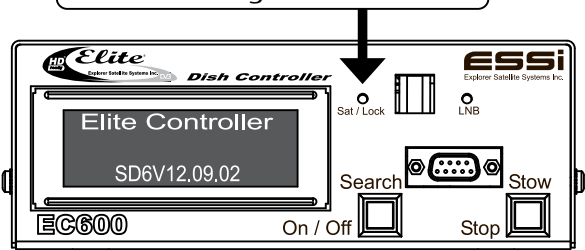
## Using the EC600 in Auto mode (with GPS enabled)

After turning Controller on LED light to turn Red



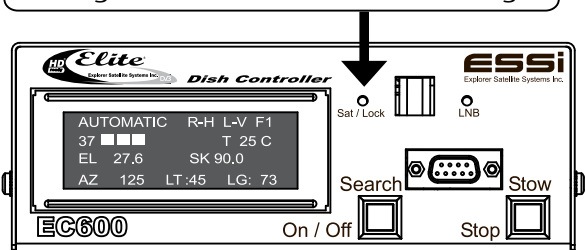
① Press Button to turn Controller on

Wait for LED light to flash Green



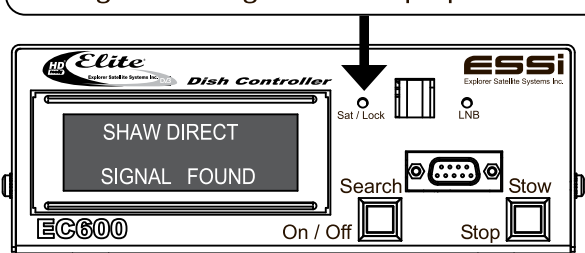
② Press Button to Start search

LED light is Yellow when dish is moving



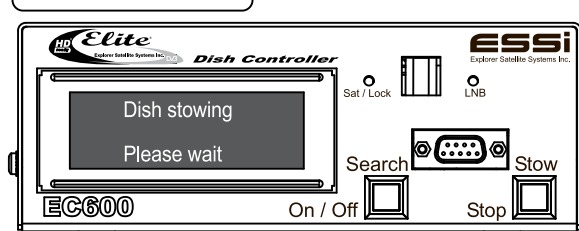
Searching for satellite

LED light will flash Amber when satellite is located  
LED light is solid green when proper satellite is located

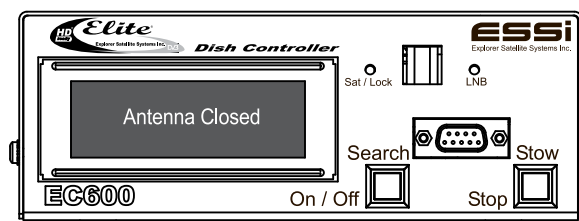


Signal found  
Controller will turn off after 15 minutes

How to stow dish



Press and hold Button until screen shows dish stowing



Dish closed  
Controller will turn off

Note: ⇨ Controller LCD screen dims out after 2 minutes of no dish movements or customer input.

⇨ For Semi-Auto search functions refer to EC600 Semi-Auto user Guide.

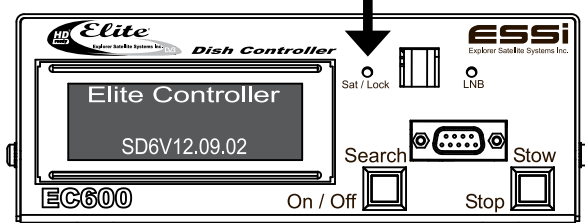
⇨ For Manual search functions refer to EC600 Manual Search user Guide.

⇨ For Remote Control codes and functions Refer to Remote user Guide.

⇨ For setup refer to installer manual.

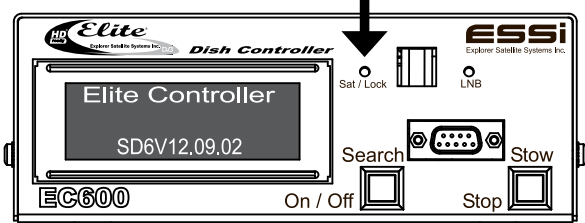
## Using the EC600 in Semi-Auto mode (with GPS enabled)

After turning Controller on LED light to turn Red



① Press Button to turn Controller on

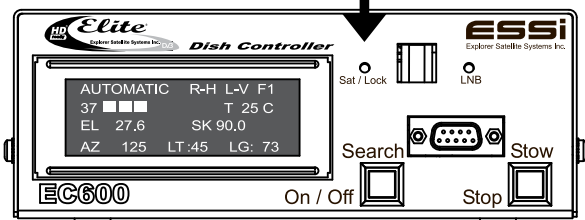
Wait for LED light to flash Green



② With your Shaw Direct remote Press channel 950 and select Options 6↔4↔3↔1 signal strength

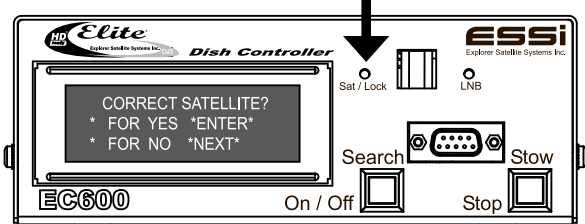
③ With your explorer remote Press semi-auto Button to Start search

LED light is Yellow when dish is moving



Searching for satellite

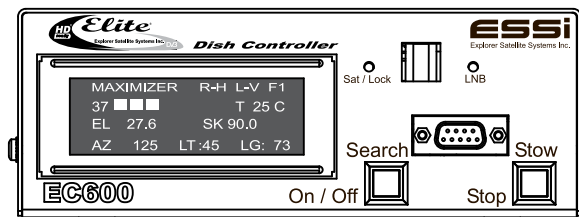
LED light will flash Amber when satellite is located  
LED light is solid green when proper satellite is located



④ With your explorer remote Press ENTER FOR \*\*YES\*\* OR NEXT FOR \*\*NO\*\*

Verify signal strength from your Shaw Direct receiver

MAX SIGNAL



If needed you may select the Maximize function on your explorer remote to increase signal. ( see ESSi remote functions manual)

**Note:** ➡For how to Stow dish refer to Auto-search Guide.

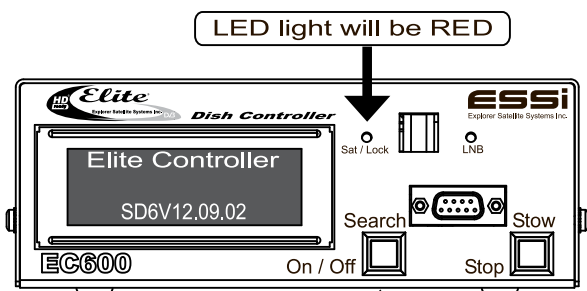
➡Controller LCD screen dims out after 2 minutes of no dish movements or customer input.

➡For Manual search functions refer to EC600 Manual Search user Guide.

➡For Remote Control codes and functions Refer to Remote user Guide.

➡For setup refer to installer manual.

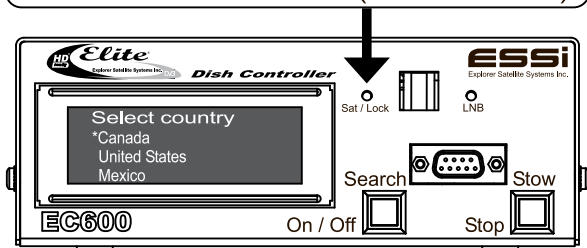
## Using the EC600 in all modes (with NO GPS enabled)



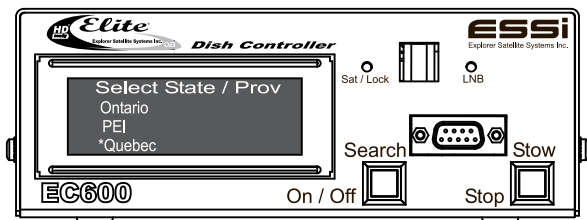
① Press Button to turn Controller on

② With your explorer remote Press Enter Button

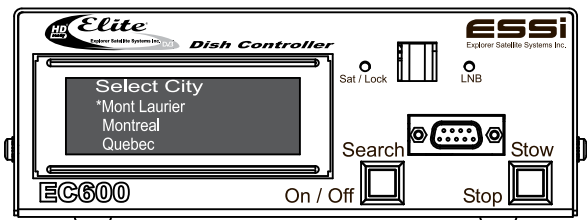
Note; LED light will flash RED if no GPS coordinates found ( GPS enabled )



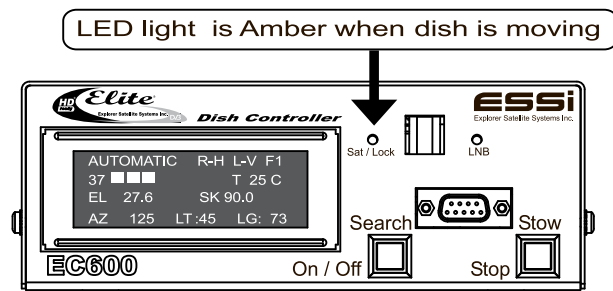
③ With your explorer remote Select country and then Press Enter



④ With your explorer remote Select State / Prov and then Press Enter

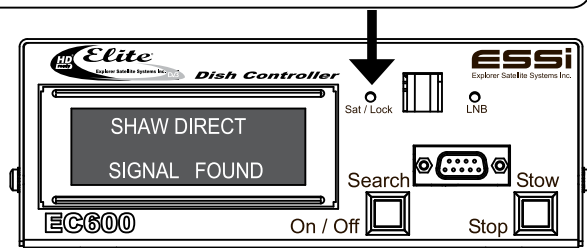


⑤ With your explorer remote Select City and then Press Enter



Searching for satellite

LED light will flash Amber when satellite is located  
LED light is solid green when proper satellite is located



Signal found  
Controller will turn off after 15 minutes

Note: ⇨ For how to Stow dish refer to Auto-search Guide.

⇨ Controller LCD screen dims out after 2 minutes of no dish movements or customer input.

⇨ For Semi-Auto search functions refer to EC600 Semi-Auto user Guide.

⇨ For Manual search functions refer to EC600 Manual Search user Guide.

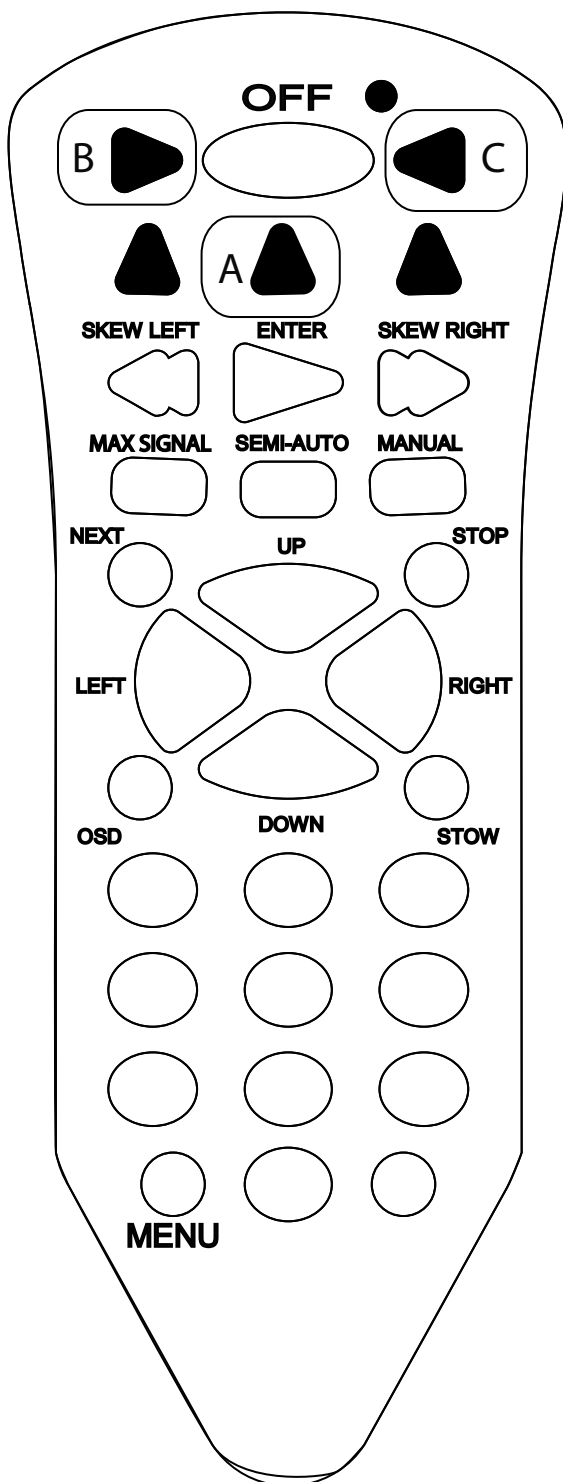
⇨ For Remote Control codes and functions Refer to Remote user Guide.

⇨ For setup refer to installer manual.

⇨ Your Receiver and TV does not have to be on when searching for satellite. although you may want to see your signal strength on the TV.

With your Shaw Direct remote Press channel 950 and select Options 6⇨4⇨3⇨1 signal strength

## All Models



**SKEW**  
in manual mode the  
dish can be tilted

**ENTER**  
must be pressed  
after each selection

**NEXT**  
choose next satellite in  
semi-auto search

**OSD**  
Manually enter LAT & Long

**Stop**  
stops the dish

**Stow**  
closes the dish

**MAX SIGNAL**  
When locked on max signal

**Semi-auto**  
in semi-auto dish will stop at  
first satellite it sees.  
Must choose next to move on.

**Manual**  
dish can be moved  
manually

**MENU**  
access to all functions

**UP / DOWN LEFT / RIGHT**  
to access functions and to move  
the dish manually

## All Models

### STEP 1

PRESS **A** AND HOLD UNTILL  
RED LIGHT REMAINS ON

PRESS **C**

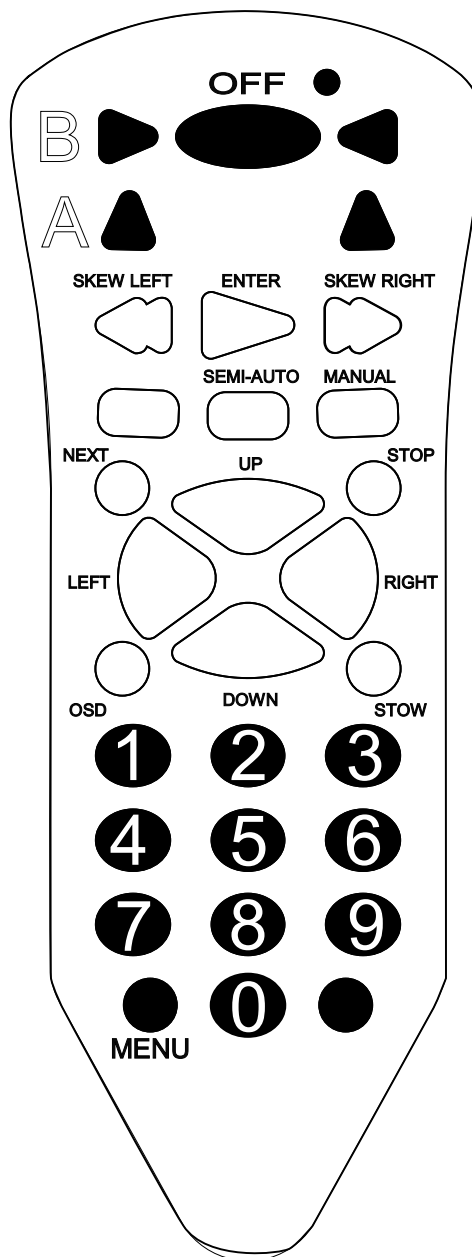
PRESS **0 0 2**

### STEP 2

PRESS **A** AND HOLD UNTILL  
RED LIGHT REMAINS ON

PRESS **B**

PRESS **0 9 9**



NOTE:  
IF BATTERIES ARE REPLACED YOU WILL  
NEED TO REPROGRAMME THE REMOTE

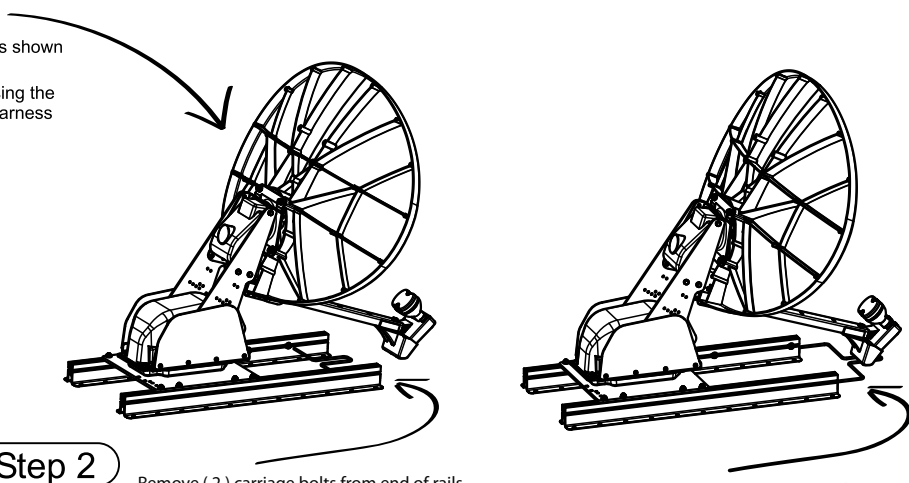
1. Verify, Shaw Direct requirements, system configuration, equipment placement etc. *(If possible, activate the receiver in advance and connected for 24 hrs prior to your installation).*
2. <> Note <> with a DVR530 Receiver, the requirements are (2) extra RG179 cables to be installed in the arm (only 2 provided)
3. Unpack SD60A / SD75a and review contents.
4. Inspect all components before install
5. Assemble dish and arm to mount <> **NOTE: Use 9 - 12V DC battery to lift Elevation Arm (pink & Brown wires). DO NOT attempt to force the arm assembly as damage will result!**
6. Attach LNB Skid plate to base.
7. Mount Base Plate on roof in a **level area** (both axis), mark holes / pre-drill & utilizing (20) #10 Screws secure with sealant *(puddle over hole between base and roof)*
8. Tie 2 RG6 & GREY Control cable together, attach to connections *(always run 2 RG6 cables to the interior of RV).*
9. Apply Dielectric grease to all RG6 and control cables.
10. Secure cables.
11. Using a 7/8" hole saw, drill hole in roof for cables.
12. Attach antenna & mount to base, stow dish flat using 9 – 12VDC battery connected to the control cable *(pink & Brown wires).*
13. Cover cables/ hole with plastic Clam Shell using putty tape and sealant. *(As per diagram in User Manual).*
14. Assemble controller and receiver cables, connectors *(as per diagram in User Manual).*
15. Install the 120VAC to 12VDC / 4 Amp Power adapter that is supplied with the controller.
16. LEVEL the Coach // RV Vehicle.
17. Program the SD60A /SD75a remote control . *(As per diagram in User Manual).*
18. Turn on the TV, *(NOTE >> If the TV Screen is fuzzy/snowy, reverse the Channel switch position <> Default is channel 3).*
19. *Systems are all pre calibrated at the factory but may need to be re calibrated.*
20. If re calibration needs to be done. turn on the controller, go to MENU and select setup then select reset controller and press ENTER. Turn it back on, select the appropriate components now the controller will calibrate the antenna. At the end the results will be displayed and it will shut down.
21. Power on the system following the on screen steps .
22. If the receiver is not activated, it will default to channel 299.

### TOOLS AND MATERIALS REQUIRED FOR INSTALLATION

- level
- tape measure
- electric or cordless drill
- 5/8" drill bit to drill hole in roof to pass through cables
- wrench (for dish and LNB arm installation)
- sealant compatible with roof material (check with your vehicle or trailer manufacturer for compatibility)
- butyl tape (to seal cables going through roof)
- 3 screws for clam shell installation  
(screw holes are provided in the mounting plate. Install as many screws as necessary to adequately secure the mounting plate to the vehicle roof.)

### Step 1

Carefully raise the antenna base as shown  
In the up position  
With a 9V battery raise the dish using the  
Tan and Brown wires in the wire harness



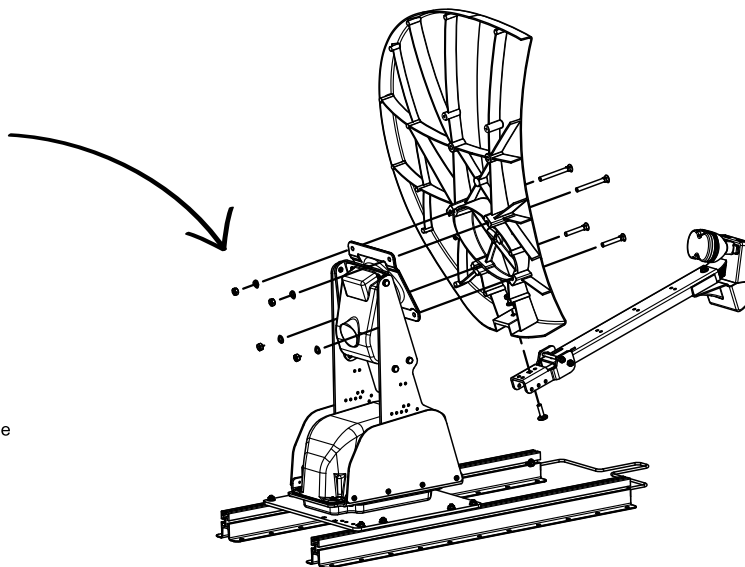
### Step 2

Remove ( 2 ) carriage bolts from end of rails.

Pull LNB support Rod out to edge of red tape.  
Reinstall ( 2 ) carriage bolts from end of rails.

### Step 3

Rotate skew disc to position dish  
mounting hole as shown.  
Position dish as shown and install  
the first carriage bolt and nut by hand.  
Rotate skew disc to opposite side  
and install the second carriage bolt  
and nut and tighten with wrench.  
Return skew disc to other side  
and tighten first nut with wrench.



### Step 4

With a 9V battery Lower the dish using the  
Tan and Brown wires in the wire harness.

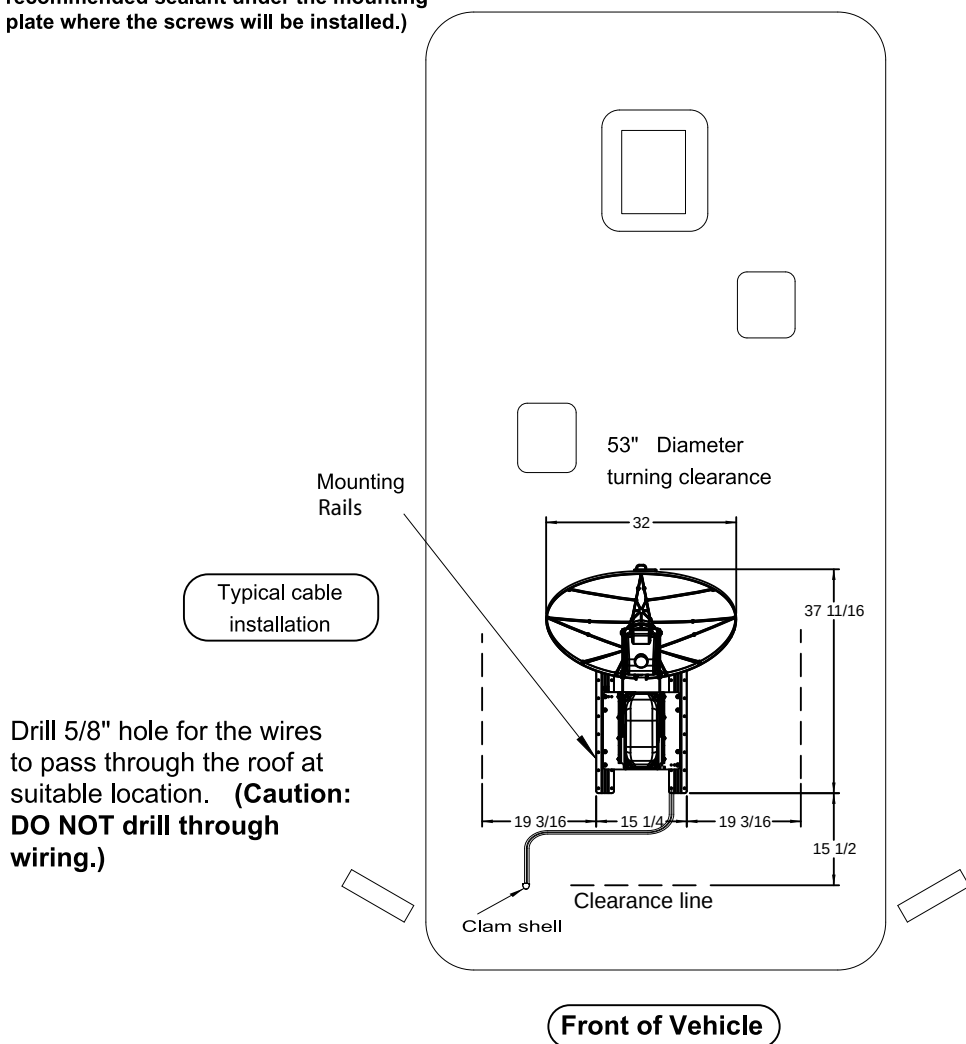
(NOTE: MANUALLY REPOSITIONING  
ELEVATION, AZIMUTH AND SKEW  
APPLIES EXCESSIVE PRESSURE ON  
MOTORS. REPOSITION SLOWLY)

### INSTALLATION

**REMINDER:** The satellite system must be level for effective operation. Ensure your vehicle is level and located where the satellite signal can be obtained without obstructions.

Determine where the satellite system will be installed. **Inspect the vehicle for the location of wires and studs.** Allow for the required space and turning clearance between the satellite system and other installed components on the vehicle roof, as shown in the illustration below. With a pencil, outline the position of the satellite system mounting plate on the roof of the vehicle.

Install as many screws as necessary to adequately secure the mounting plate to the vehicle roof. **(Use manufacturers recommended sealant under the mounting plate where the screws will be installed.)**

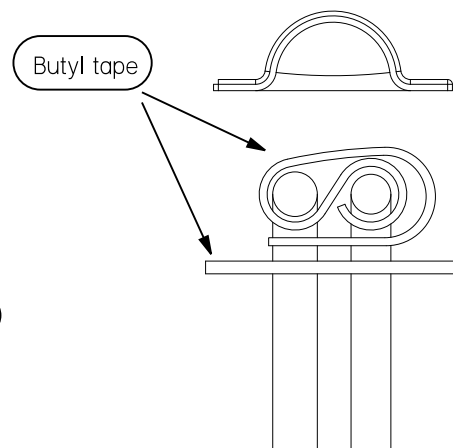
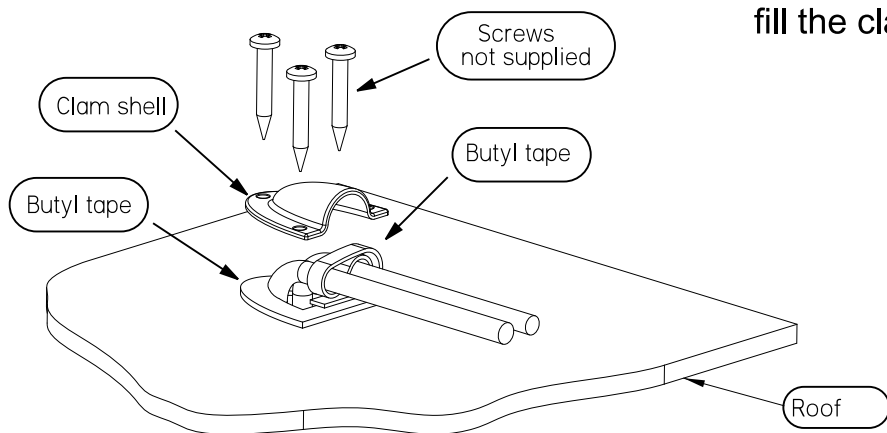


# All Models

**(Use manufacturers recommended sealant under the mounting plate where the screws will be installed.)**

Before installing the clam shell, install the coax and power cables through hole in roof and seal the cables with butyl tape as shown below.

Butyl tape must be coiled around cables as shown here to ensure a proper seal. Install clam shell. (Be sure the tape seals the screw holes and the bottom face of the clam shell. The butyl tape must also fill the clam shell opening once installed.



Ensure that the power and coax cables are adequately secured to the vehicle roof.

